

NOVEL PHYSIOLOGICALLY ACTIVE SUBSTANCE

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Abstract

NEW MATERIAL:An extract EK of a plant belonging to the genus Eucalyptus, which has an anti-inflammatory action, will not be steam-distilled, gives an Rf value of 0.4 in thin layer chromatography (on a silica gel plate) when developed by a mixed solvent of n-hexane with ethyl acetate at a volume ratio of 20:1, and a compound EA which is separated and purified from the extract EK and has the following properties: 1) colorless needlelike crystals having a melting point of 169-171 deg.C (recrystallized from EtOH). 2) Molecular formula C₂₈H₃₈O₅. 3) $[\alpha]_D^{25} = +224$ + or -10 deg. (C=1, in CHCl₃). 4) Positive to the FeCl₃ reaction etc., and negative to the Dragendorff test. 5) Readily soluble in n-hexane etc., soluble in methanol, DMF, etc., and slightly soluble in water etc.

USE:An anti-inflammatory agent for mammals with low toxicity.

PROCESS:A plant of the genus Eucalyptus is macerated and extracted with a solvent, e.g. n-hexane, at 10-30 deg.C for 6hr-1 week, and the extract is subjected to column chromatography with silica gel to give the extract EK, which is further chromatographed to isolate the compound EA.

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